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Application No.	09/734,761	Prepared by	NPB	Tracking Number	05883138
Examiner-GAU	Church-2882	Date	2/25/04	Week Date	12/29/03
		No. of queries	3	IPW	

## JACKET

a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449
b. Applicant(s)	g. Disclaimer	l. Print Fig.	q. PTOL-85b
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other

SPECIFICATION	MESSAGE		
	(1) pto-892/1449 forms: Text/data at the bottom pages of the forms are illegible (see attached). Please supply legible/clear copies of the forms.		
	(2) Please verify if original claim 72 (now claim 57) is allowed. It is allowed in the index of claims and text, but not listed or shown as allowed in Notice of Allowability. Please verify.		
	(3) Claim pages dated 7/18/03 — data at the bottom pages are illegible (some data was cut-off). Please provide new pages with complete data.		
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k. Other			
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
*(use as many sheets as necessary)*

Sheet 1 of 1

Application Number	09/734,761
Filing Date	December 13, 2000
First Named Inventor	Cha-Mei TANG
Art Unit	2882
Examiner Name	C. CHURCH
Attorney Docket Number	40797

51 P E Sheet

A circular stamp with a double-line border. The outer ring contains the text "PATENT & TRADEMARK OFFICE" in a stylized font. The inner circle contains the word "EXAMINER" at the top and "INITIALS" below it. There is a small "C" at the bottom right.

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code-Number-Kind Code (if known)	MM-DD-YYYY		T

## NON-PATENT LITERATURE DOCUMENTS

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publishers, city and/or country where published	
CCC		H.E. Johns et al., "The Physics of Radiology", Charles C. Thomas, Springfield, Illinois, 1983, pages 134-166, 734-736.	
		R.E. Henkin et al., "Nuclear Medicine", Mosby, St. Louis, Missouri, 1996. <i>no copy of record</i>	
CCC		Olga V. Makarova et al., "Microfabrication of Freestanding Metal Structures Released from Graphite Substrates", <u>IEEE</u> , pages 400-402.	
CCC		Cha-Mei Tang et al., "Experimental and Simulation Results of Two-Dimensional Prototype Anti-Scatter Grids for Mammography", World Congress on Medical Physics and Biomedical Engineering, Chicago, 2000.	
CCC		KEVIN FISCHER et al., "Fabrication of Two-Dimensional X-Ray Anti-Scatter Grids for Mammography", Advances in X-Ray Optics, Andreas K. Freund et al., editors, <u>Proceedings of SPIE</u> Vol. 4145, 2001, pages 227-234.	
CCC		John M. Boone, Ph.D., et al., "Grid and Slot Scan Scatter Reduction in Mammography: Comparison by Using Monte Carlo Techniques", <u>Radiology</u> , Vol. 222, February 2002, pages 519-527.	
CCC		Cha-Mei Tang et al., "Precision Fabrication of Two-Dimensional Anti-Scatter Grids, In Medical Imaging 2000: Physics of Medical Imaging", James T. Dobbins III and John M. Boone, editors; <u>Proceedings of SPIE</u> , Vol. 3977, 2000, pages 647-657.	
CCC		Olga V. Makarova et al., "Development of Freestanding Copper Anti-scatter Grid Using Deep X-ray Lithography".	
Examiner Signature		Closed	Date Considered 2/03

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

Cha-Mei Tang

FILING DATE

December 13, 2000

GROUP

2876

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CCC	5 7 2 9 5 8 5	3/1998	Pellegrino et al.			
CCC	5 8 1 4 2 3 5	9/1998	Pellegrino et al.			
CCC	5 6 0 6 5 8 9	2/1997	Pellegrino et al.			
REL	5 9 4 9 8 5 0	9/1999	Tang			
CEL	5 9 6 6 4 2 4	10/1999	Liu			
CCC	5 8 4 7 3 9 8	12/1998	Shahar et al.			
CEL	5 6 2 5 1 9 2	4/1997	Oda et al.			
CCC	5 5 7 6 1 4 7	11/1996	Guckel et al.			
CCC	5 5 2 4 0 4 1	6/1996	Grenier			
CCC	5 4 9 6 5 6 8	3/1996	Guckel et al.			
CCC	5 4 1 8 8 3 3	5/1995	Logan			
CCC	5 3 7 9 3 3 6	1/1995	Kramer et al.			
CCC	5 3 7 8 5 8 3	1/1995	Guckel et al.			
CCC	5 2 3 1 6 5 4	7/1993	Kwasnick et al.			
CCC	5 2 0 6 9 8 3	5/1993	Guckel et al.			
CCC	5 1 9 0 6 3 7	3/1993	Guckel			

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

CCC	C.M. Tang, Small Business Information Research Solicitation No. DOE/ER-0686, 21 pages (March 1, 1997). /
CCC	C.M. Tang et al., "Anti-Scattering X-Ray Grid", <u>Microsystem Technologies</u> , pages 187-192 (1998). /
CCC	Larry E. Antonuk et al., "A Large-Area, 97 $\mu$ m Pitch, Indirect-Detection, Active Matrix, Flat-Panel Imager (AMFPI)", <u>Part of the SPIE Conference of Medical Imaging, San Diego, CA, SPIE Vol. 3336</u> , pages 2-13, (February 1998). /
CCC	Radiological Society of North America, 80 <sup>th</sup> Scientific Assembly and Annual Meeting, November 27-December 2, 1994, page 253. /
CCC	Denny L. Lee et al., "Improved Imaging Performance of a 14 x 17-inch Direct Radiography™ System Using Se/TFT Detector", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336</u> , pages 14-23 (February 1998). /
CCC	Robert Street et al., "Large Area X-Ray Image Sensing Using a PbI <sub>2</sub> Photoconductor", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336</u> , pages 24-32 (February 1998). /

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Chen

DATE CONSIDERED

12/01

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Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 40797	SERIAL NO. 09/734,761								
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Cha-Mei Tang									
				FILING DATE December 13, 2000	GROUP 2876								
U. S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE				
CEC		5	2	6	3	0	7	5	11/1993	McGann et al.			
CEC		4	6	8	8	2	4	2	8/1987	Ema			
CEC		4	4	3	3	4	2	7	2/1984	Barnea			
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)													
CEC		Tom J.C. Bruijns et al., "Technical and Clinical Results of an Experimental Flat Dynamic (Digital) X-ray Image Detector (FDXD) System with Real-Time Corrections", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 33-44, (February 1998)</u> .											
CEC		Christophe Chaussat et al., "New CsI/a-Si 17" x 17" X-Ray Flat Panel Detector Provides Superior Detectivity and Immediate Direct Digital Output for General Radiography Systems", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 45-56 (February 1998)</u> .											
CEC		Hans Roehrig et al., "Flat-Panel Detector, CCD Cameras and Electron Beam Tube Based Video Camera for Use in Portal Imaging", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 163-174 (February 1998)</u> .											
CEC		Herbert D. Zeman et al., "Portal Imaging with a CsI(Tl) Transparent Scintillator X-Ray Detector", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 175-186 (February 1998)</u> .											
CEC		Jean-Pierre Moy, "Image Quality of Scintillator Based X-ray Electronic Imagers", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 187-194 (February 1998)</u> .											
CEC		G. Pang et al., "Electronic Portal Imaging Device (EPID) Based on a Novel Camera with Avalanche Multiplication", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 195-203 (February 1998)</u> .											
CEC		Michael P. André et al., "An Integrated CMOS-Selenium X-Ray Detector for Digital Mammography", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 204-209 (February 1998)</u> .											
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LEC		Richard E. Colbeth et al., "Flat Panel Imaging System for Fluoroscopy Applications", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 376-387</u> (February 1998).					
LEC		Akira Tsukamoto et al., "Development of a Selenium-Based Flat-Panel Detector for Real-Time Radiography and Fluoroscopy", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 388-395</u> (February 1998).					
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CEC		Cornelis H. Slump et al., "Real-Time Diagnostic Imaging with a Novel X-ray Detector with Multiple Screen - CCD Sensors", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 418-429</u> (February 1998).					
CEC		Edmund L. Baker et al., "A Physical Image Quality Evaluation of a CCD-Based X-ray Image Intensifier Digital Fluorography System for Cardiac Applications", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 430-441</u> (February 1998).					
CEC		Richard L. Weisfield et al., "New Amorphous-Silicon Image Sensor for X-Ray Diagnostic Medical Imaging Applications", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 444-452</u> (February 1998).					
CEC		Toshio Kameshima et al., "Novel Large Area MIS-Type X-Ray Image Sensor for Digital Radiography", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 453-462</u> (February 1998).					
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<small>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

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APPLICANT  
Cha-Mei TangFILING DATE  
December 13, 2000

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2876

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

CCL	Gary S. Shaber et al., "Clinical Evaluation of a Full Field Digital Projection Radiography Detector", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA</u> , SPIE Vol. 3336, pages 463-469 (February 1998).
CCL	Donald R. Ouimette et al., "A New Large Area X-Ray Image Sensor", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA</u> , SPIE Vol. 3336, pages 470-476 (February 1998).
CCL	David P. Trauernicht and John Yorkston, "Screen Design for Flat-Panel Imagers in Diagnostic Radiology", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA</u> , pages 477-485 (February 1998).
CCL	John Rowlands and Safa Kasap, "Amorphous Semiconductors Usher in Digital X-Ray Imaging", <u>Physics Today</u> , pages 24-30 (November 1997).
CCL	N.M. Allinson, "Development of Non-Intensified Charge-Coupled Device Area X-Ray Detectors", <u>Journal of Synchrotron Radiation</u> , pages 54-62 (1994).
CCL	I.M. Blevis et al., "Digital Radiology Using Amorphous Selenium and Active Matrix Flat Panel Readout: Photoconductive Gain and Gain Fluctuations", <u>Medical Imaging Research, Sunnybrook Science Center, University of Toronto</u> , 8 pages.
CCL	Justin M. Henry et al., "Noise in Hybrid Photodiode Array - CCD X-Ray Image Detectors for Digital Mammography", SPIE Vol. 2708, pages 106-115 (February 1998).
CCL	"DpiX' Digital X-Rays for Diagnosis and Treatment", <u>The Clock</u> , pages 3, 5 and 19-21 (December '97/January '98).
CCL	Russell C. Hardie et al., "Joint MAP Registration and High-Resolution Image Estimation Using a Sequence of Undersampled Images", <u>IEEE Transactions on Image Processing</u> , Vol. 6 No.12, pages 1621-1632 (December 1997).

EXAMINER	DATE CONSIDERED
CCL	12/01

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	DOCUMENT NUMBER			DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)								
CEC	Joseph C. Gillette et al., "Aliasing Reduction in Staring Infrared Imagers Utilizing Subpixel Techniques", <u>Optical Engineering</u> , Vol. 34, No. 11, pages 3130-3137 (November 1995). /							
CEC	Russell C. Hardie et al., "High-Resolution Image Reconstruction from a Sequence of Rotated and Translated Frames and its Application to an Infrared Imaging System", <u>Optical Engineering</u> , Vol. 37, No. 1, pages 247-260, (January 1998). /							
CEC	Kai M. Hock, "Effect of Oversampling in Pixel Arrays", <u>Optical Engineering</u> , Vol. 34, No. 5, pages 1281-1288 (May 1995). /							
CEC	Kenneth J. Barnard et al. "Effects of Image Noise on Submicroscan Interpolation", <u>Optical Engineering</u> , Vol. 34, No. 11, pages 3165-3173 (November 1995). /							
CEC	Kenneth J. Barnard et al., "Nonmechanical Microscanning Using Optical Space-Fed Phased Arrays", <u>Optical Engineering</u> , Vol. 33, No. 9, pages 3063-3071 (September 1994). /							
CEC	Gerald C. Holst, <u>Sampling, Aliasing, and Data Fidelity</u> , pages 98-130 (published prior to Feb. 18, 1999). /							
CEC	Larry E. Antonuk et al., "Demonstration of Megavoltage and Diagnostic X-Ray Imaging with Hydrogenated Amorphous Silicon Arrays", <u>Am. Assoc. Phys. Med.</u> , Vol. 19, No. 6, pages 1455-1466 (Nov/Dec 1992). /							
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS
					TRANSLATION YES NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)					
C&C	E.W. Becker et al., "Fabrication of Microstructures with high aspect ratios and great structural heights by synchrotron Radiation Lithography, Galvanoforming, and Plastic Molding (LIGA Process)." <u>Microelectronics Engineering</u> , Vol. 4 pages 35-56 (1986).				
C&C	Dr. P. Bley, "The LIGA Process for Fabrication of Three-Dimensional Microscale Structures," <u>Interdisciplinary Sci. Rev.</u> , Vol. 18, pages 267-272 (1993).				
C&C	"DARPA Awards Contract for X-Ray Lithography System", <u>Micromachine Devices</u> , Vol. 2, No. 3, page 2 (1997).				
C&C	R.L. Egan, "Intramammary Calcifications Without an Associated Mass", <u>Radiology</u> , Vol. 137, pages 1-7 (1980).				
C&C	H. Guckel, program and notes describing his "Invited talk at the American Vacuum Society Symposium", Philadelphia, PA, Oct. 1996.				
C&C	"IBM Team Develops Ultrathick Negative Resist for MEMs Users", <u>Micromachine Devices</u> , Vol. 2, No. 3, page 1 (1997).				
C&C	"X-Ray Lithography Scanners for LIGA", <u>Micromachine Devices</u> , Vol. 1, No. 2, page 8 (1996).				
C&C	E.P. Muntz et al., "On the Significance of Very Small Angle Scattered Radiation to Radiographic Imaging at Low Energies", <u>Med. Phys.</u> Vol. 10, pages 819-823 (1983).				
C&C	M.J. Yaffe et al., "X-Ray Detectors for Digital Radiography", <u>Phys. Med. Biol.</u> , Vol. 42, pages 1-39 (1997).				
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CEC		D.P. Siddons et al., "Precision Machining using Hard X-Rays", <u>Syncrotron Radiation News</u> , Vol. 7, No. 2, pages 16-18 (1994).					
CEC		Computer printout of University of Wisconsin Web Site "http://mems.engr.wisc.edu/liga.html", entitled "UW-MEMS-Research-Deep X-ray Lithography" (web site information available to public prior to June 19, 1987 filing date of present application).					
CEC		Computer printout of University of Wisconsin Web Site "http://mems.engr.wisc.edu/pc.html" entitled "UW-MEMS-Research-Precision Engineering" (web site information available to public prior to June 19, 1987 filing date of present application).					
CEC		Computer printout of University of Wisconsin Web Site "http://mems.engr.wisc.edu/~guckel/homepage.html" (web site information available to public prior to June 19, 1987 filing date of present application).					
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)						
CEC	H. Guckel, "NATO Advanced Research Workshop on the Ultimate Limits of Fabrication and Measurement", <u>Proceedings of the Royal Society (Invited Talk/Paper)</u> , pages 1-15 (April 1994).					
CEC	H. Guckel et al., "Micromechanics via x-ray assisted processing", <u>Journal of Vacuum Science Technology</u> , pages 2559-2564 (July/August 1994).					
CEC	W. Ehrfeld, "Coming to Terms with the Past and the Future", <u>LIGA News</u> , pages 1-3 (January 1995).					
CEC	H. Guckel et al., "Micro Electromagnetic Actuators Based on Deep X-Ray Lithography", <u>MIMR '95, Sendai, Japan</u> , (September 27-29, 1995).					
CEC	H. Guckel et al., "Micromechanics for actuators via deep x-ray lithography", <u>Proceedings of SPIE, Orlando, Florida</u> , pages 39-47 (April 1994).					
CEC	Z. Jing et al., "Imaging characteristics of plastic scintillating fiber screens for mammography", <u>SPIE</u> , Vol. 2708, pages 633-644 (February 1996).					
CEC	N. Nakamori et al., "Computer simulation on scatter removing characteristics by grid", <u>SPIE</u> Vol. 2708, pages 617-625 (February 1996).					
CEC	P. A. Tompkins et al., "Use of capillary optics as a beam intensifier for a Compton x-ray source", <u>Medical Physics</u> , Vol. 21, No. 11, pages 1777-1784 (November 1994).					
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CCL		R. Fahrig et al., "Performance of Glass Fiber Antiscatter Devices at Mammographic Energies", <u>Am. Assoc. Phys. Med.</u> , Vol. 21, No. 8, pages 1277-1282 (August 1994).					
CCL		L.E. Antonuk et al., "Large Area, Flat-Panel, Amorphous Silicon Imagers", <u>SPIE</u> Vol. 2432, pages 216-227 (July 1995).					
CCL		H.E. Johns, OC, Ph.D., F.R.S.C., LL.D., D.Sc., F.C.C.P.M., <u>The Physics of Radiology</u> , Fourth Edition (Charles C. Thomas: Springfield, Illinois, 1983), page 734.					
CCL		Collimated Holes, Inc. Products Manual, pages entitled "Rectangular and Square Fibers/Fiber Arrays" (April 1995) and "Scintillating Fiberoptic Faceplate Price List Type LKH-6" (December 1995).					
CCL		H. Guckel et al., "LIGA and LIGA-Like Processing with High Energy Photons", <u>Microsystems Technologies</u> , Vol. 2, No. 3, pages 153-156 (August 1996).					
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EXAMINER	<i>Chen</i>				DATE CONSIDERED <i>12/01</i>		
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

**Notice of References Cited**

Application No.

734761

Applicant(s)

Lang

Examiner

Church

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**U.S. PATENT DOCUMENTS**

*	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	5970118	10/99	Dobolov	378	155
B					
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**FOREIGN PATENT DOCUMENTS**

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Part of Paper No. 23